

Fx6.2

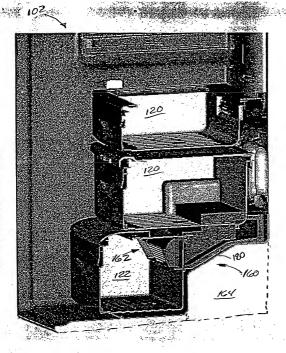
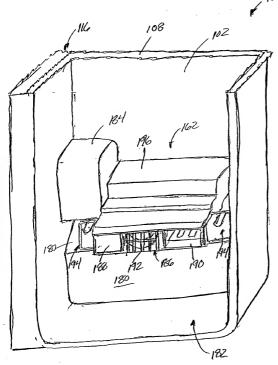


FIG. 2



F16.3

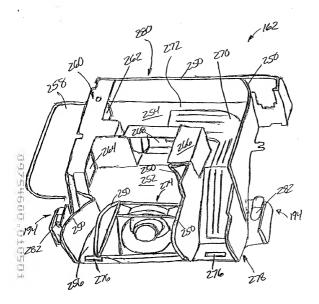
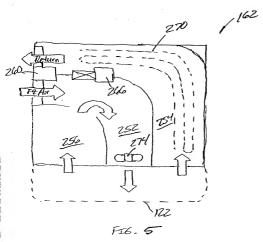
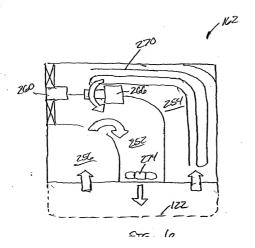
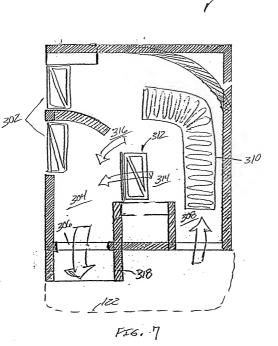


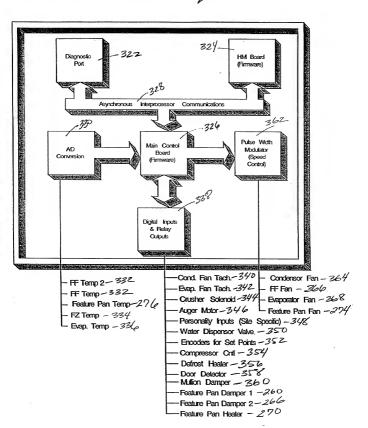
FIG. 4

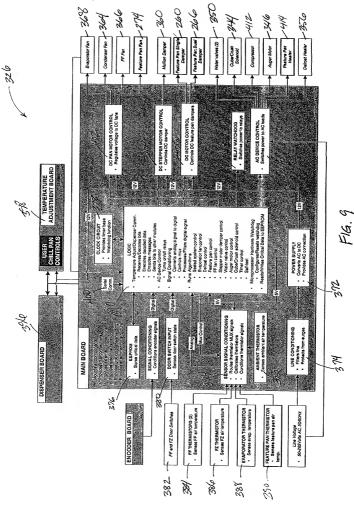






320







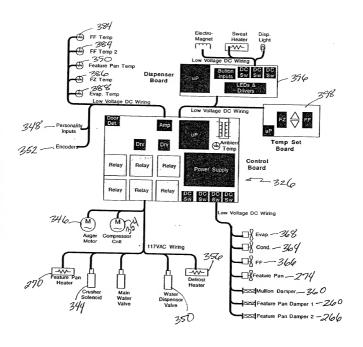
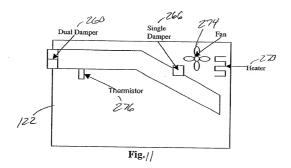


Fig 10





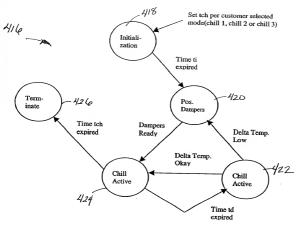
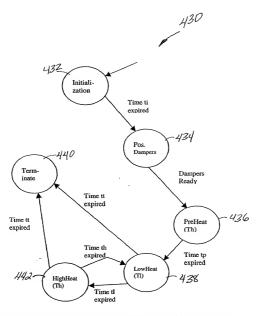


Fig. 12



Initialization: Shuts off heater and turns on fan. This mode is implemented so that the customer interface LED that is wired in parallel with the fan will turn on as soon as the button is hit. Time ti is the initialization time and will typically be approximately one minute.

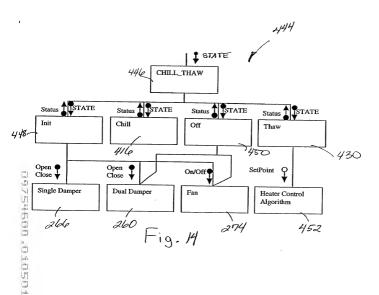
Pos. Dampers: This state shuts off the fan, sets the single damper open then closes the dual damper. It then turns the fan back on. This is done for power management.

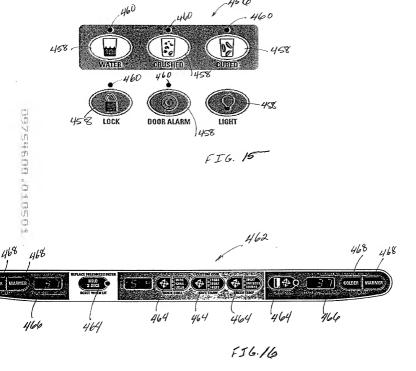
PreHeat: This state regulates the pan temperature

LowHeat

HighHeat:

Terminate: This mode closes both dampers and shuts off the fan then returns to idle.





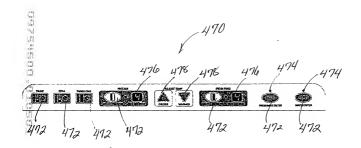
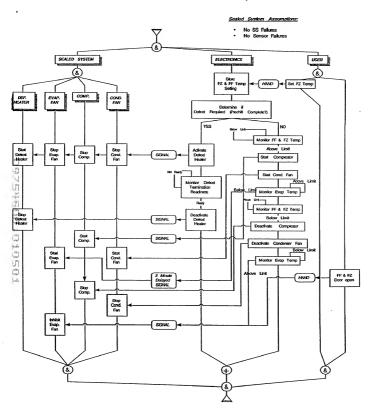


Figure 17.



. Sealed System Behavior Diagram

Fig 18

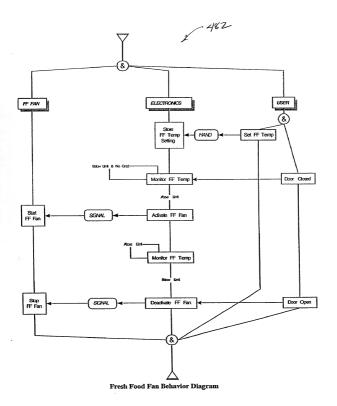
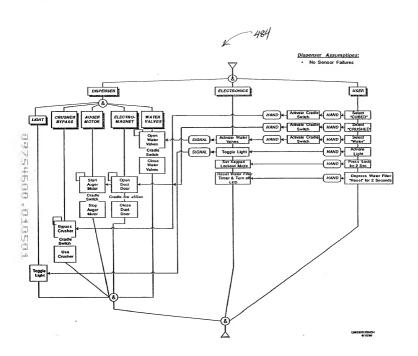


Fig 19



Dispenser Behavior

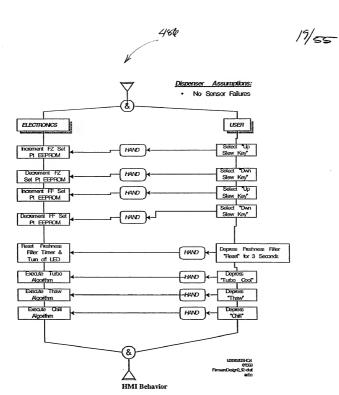
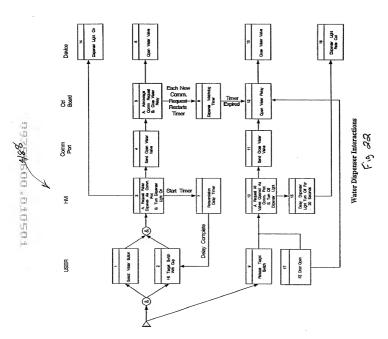
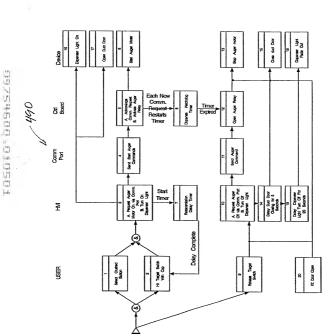


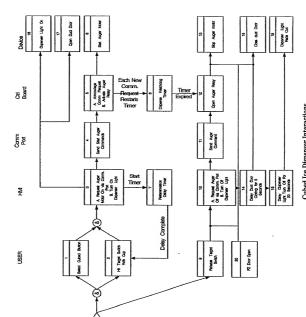
Fig al



-55/00

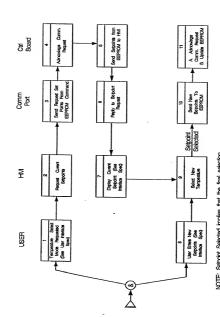


Crushed Ice Dispenser Interactions  $F_{i9} 33$ 



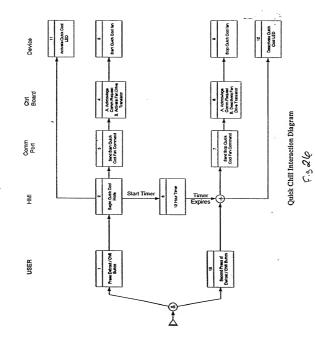
Cubed Ice Dispenser Interactions  $\beta > \beta$ 

Device

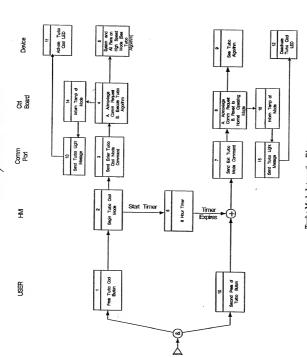


NOTE: Setboint Selected implies that the final selection has been made and that the selection has timed out.

Temperature Setting Interaction Diagrams ドッパラ



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Turbo Mode Interaction Diagram

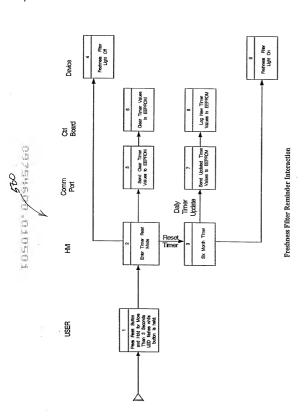
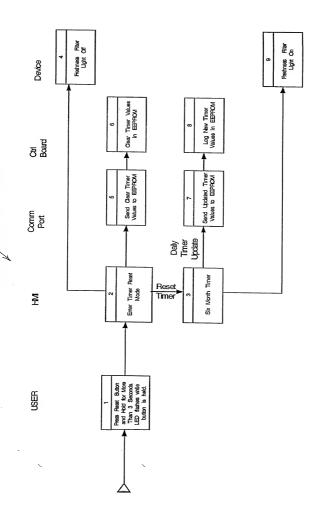
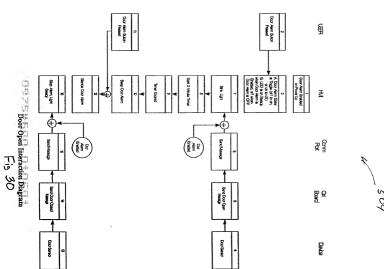
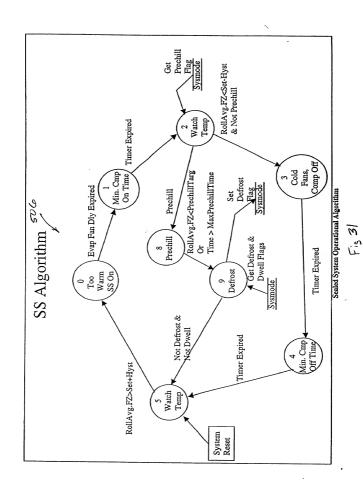


Fig 28

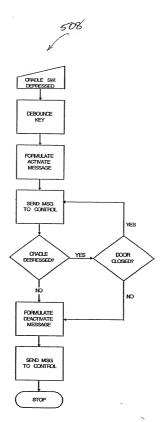


... Water Filter Reminder Interaction

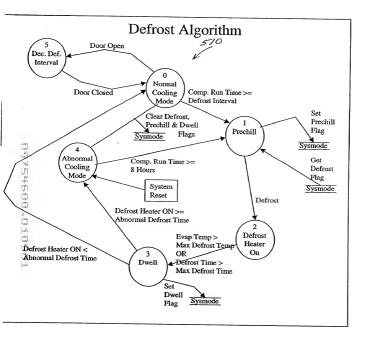




55/60

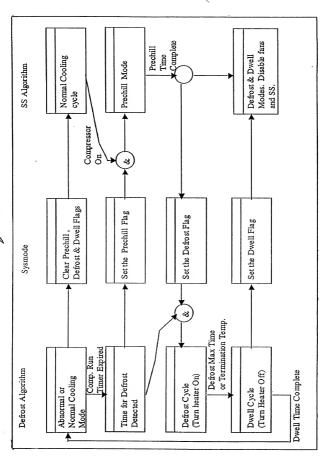


Dispenser Control Algorithm



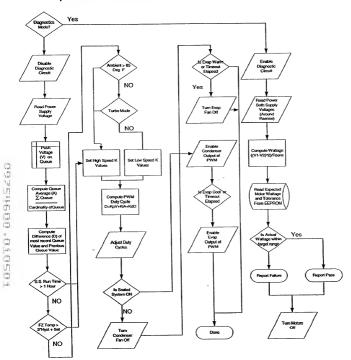
Defrost Control State Diagram

Fig 33



F. 8 34

## Evap. & Cond. Fan Control:

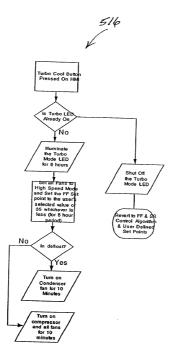


## Fan Speed Control

Notes: 1. The FF & Evaporator fans will shut off for the first five minutes that the door is open.

- 2. Only one fan at a time can be on at a time during diagnostics.
- Once the fan has been switched to high speed, it remains in that state until the operational cycle is complete.

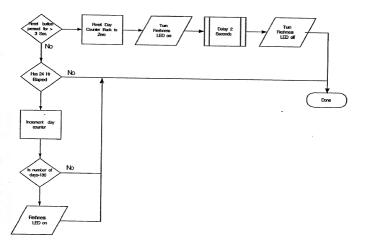
F16.35



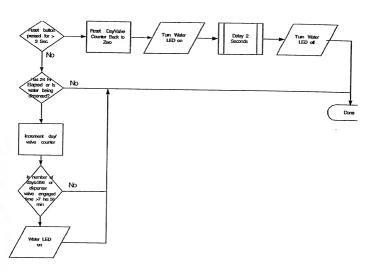
TURBOCYCLE ALGORITHM
Fig 36



## Change Freshness Filter:



` Freshness Filter Reminder Algorithm

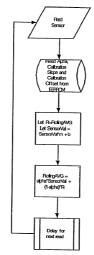


Water Filter Reminder Algorithm

F., 38



## SENSOR READ AND ROLLING AVERAGE ALGO:



Sensor Reading Algorithm

## NOTE:

Fresh food average uses this algorithm twice to create a 2<sup>nd</sup> pole filter.

Fig 39

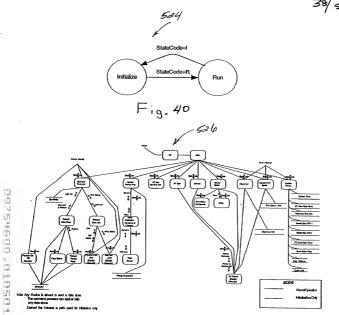
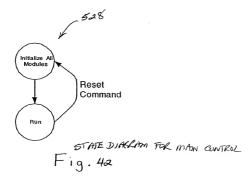


Fig. 41



## HMI MAIN STATE MACHINE

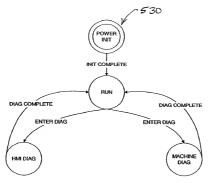
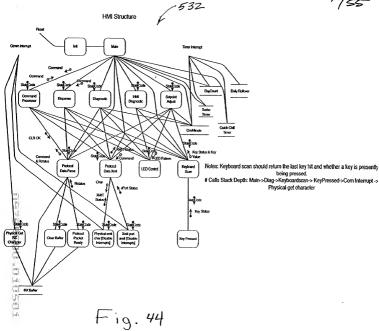
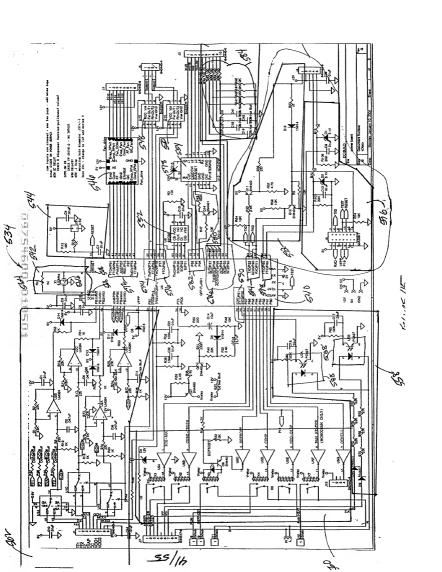
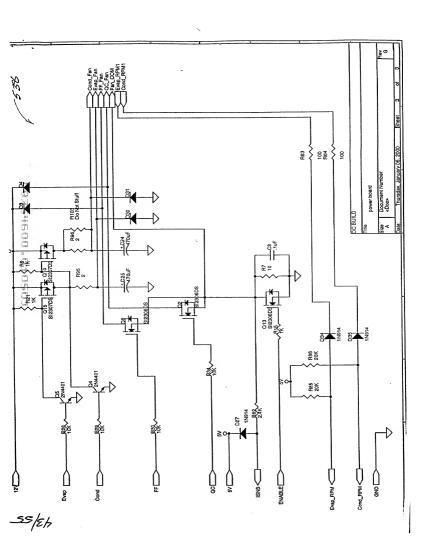


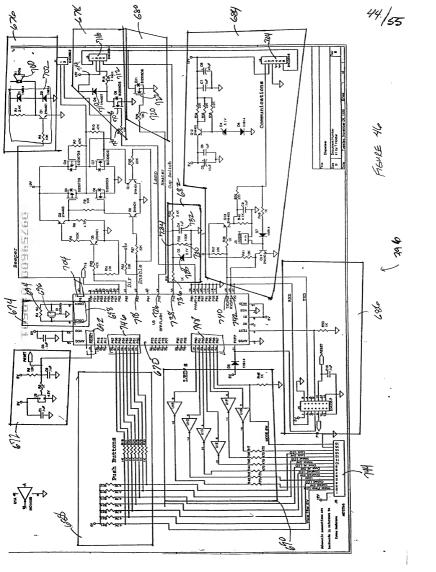
Fig. 43

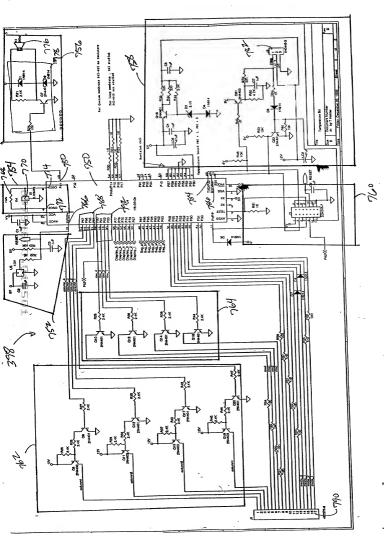




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F16WE 47

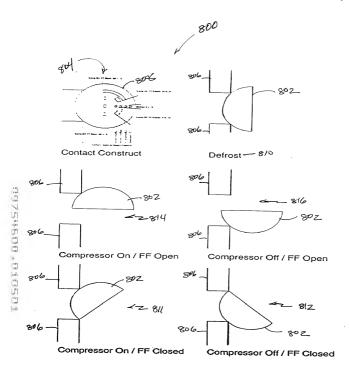


FIG. 48

CI6.49

FIG. 50

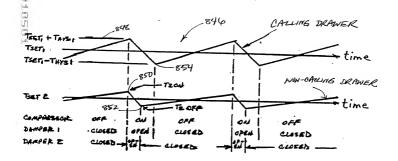
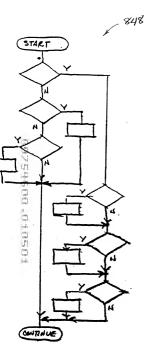


FIG. 51



COMPRESSOR ON?

TEMP CAMB! > TSET! + THYS! ?

COMPRESSOR & FANS -- ON

STORE TEMP OF CAMB2 AS TZ ON

CALL. TZ OFF = TZ:CT (TZON - TZSET)

SET THOFF = TSET - THYS?

TEMP CAMB2 > TSETZ + THYS? ?

COMPRESSOR & FAMS -- ON

STORE TEMP CAMB! AS TI ON

CALC. THOFF = TSET-(TZN - TI SET)

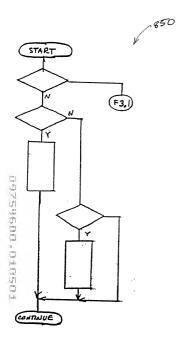
TEMP CAMB! = TI OFF?

CLOSE DAMPER!

TEMP CHAMB 2 & TE OFF ?
CLOSE DAMPER 2

ALL DAMPERS CLOSED ? TURN OFF COMPRESSOR & FANS

FIG. 52



COMPRESSOR ON?

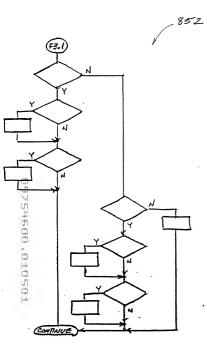
TI > TI MAX

SET DAMER FOR EQUAL AIR FLOW TURN COMPRESSOR AND FANS ON SET CONDITION I FLAG-SET TROM = TZ

TE > TEMAX

SET DAMPER TO MAX AIR FLOW TURN COMPRESSOR AND FAMS ON SET CONDITION 2 FLAG SET TON = TI

FIG.53



CONDITION 1 FLAG SET ?

TZ = TZSET - (TZON - TZSET)?

CLOSE DAMPER

TI = TIMIN ?

TURN COMPRESSOR AND FAMS OFF RESET CONDITION 1 FLAG-

CONDITION Z FLAG SET ?

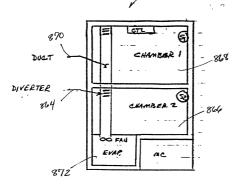
ERROR - RESTART COMPUTER

TZ = TZ MIN ? CLOSE DAMPER

TI = TISET - (TION - TISET) ?

TURN COMPRESSAL AND FAME OFF
RESET CONDUTION Z FLAC-

FIG. 54



-860

FIG. 55

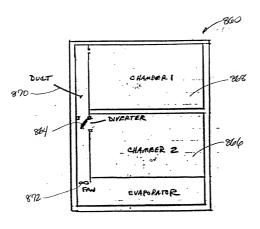


FIG. 56

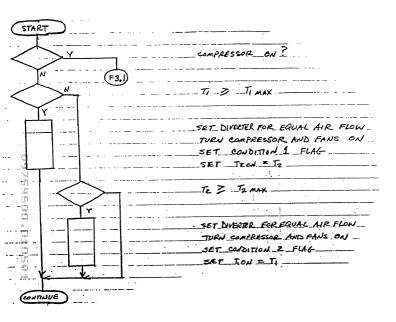


FIG. 57

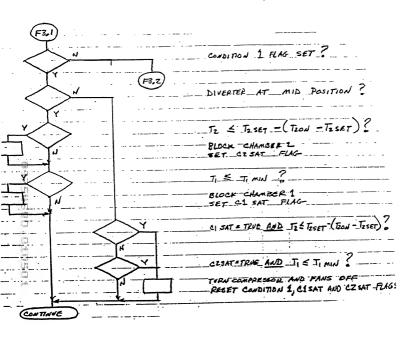


FIG. 58

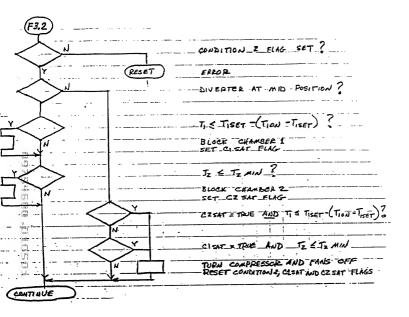


FIG. 59